Pellet Paint Co-Precipitant

ORDERING INFORMATION				
Product		Size	Cat. No.	Price
Pellet Paint Co-P	recipitant	125 rxn	69049-3	\$45
Component • 250 µl		Paint Co	-Precipit	ant

3 M Sodium Acetate, pH 5.2

Additional	Information	Available

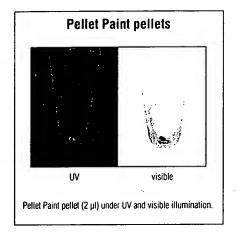
1 ml

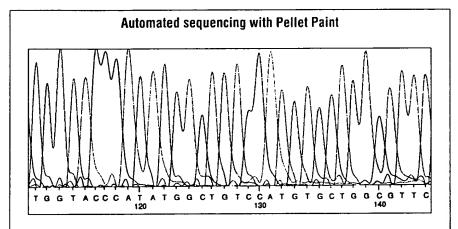
Pellet Paint Protocol	TB146
in Nova tions	No. 4. 5

Pellet PaintTM Co-Precipitant* is a visible dye-labeled carrier formulated specifically for use in alcohol precipitation of nucleic acids (1). The five minute precipitation protocol requires no low temperature incubations or prolonged centrifugation. Both RNA and DNA are efficiently precipitated from even the most dilute solutions (2 ng/ml) and the pellet is easily located by its vivid pink color. The pellet can be easily followed during washing steps and prevents losses during handling. Pellet Paint is compatible with most molecular biology procedures and is free of contaminating nucleic acids and nucleolytic enzymes. Although Pellet Paint absorbs in the UV range, accurate spectrophotometric measurements of DNA or RNA samples are possible; the absorbance ratio (provided with each package of Pellet Paint) can be used as a correction factor when determining nucleic acid concentration (2). Not recommended for use with PE Applied Biosystems automated sequencers.

1998-1999 Catalog

- 1. McCormick, M. (1995) inNovations 4, 10-11.
- 2. McCormick, M. (1996) inNovations 5, 10.





A double stranded plasmid template (5 µg) was precipitated with Pellet Paint, denatured with alkali, neutralized and sequenced with a Cy5 labeled primer on a Pharmacia ALF Express sequencer. The sequence was readable to more than 500 bases, which was the same as a control reaction performed in the absence of Pellet Paint. (Data courtesy of M. Domanico, Pel-Freez.)

Comparison of different carriers for precipitation of nucleic acids

Pell	et Paint	glycogen	tRNA
compatible with:			
gel electrophoresis	•	•	-
PCR amplification	~	?	_
DNA sequencing	•	•	-
restriction digestion	•	~	~
ligation	•	~	?
transformation	•	?	_
cDNA synthesis	•	?	-
kinase reactions	•	~	-
random priming	•	?	_
in vitro transcription	~	•	?
in vitro translation	•	•	~
RNase protection assay	~	?	~
phenol extraction	•	•	~
LiCI precipitation	/	~	_
bacterial electroporation	~	?	?
PEG precipitation	•	?	?

Recovery of various RNA and DNA samples with Pellet Paint as the carrier

<u>Sample</u>	Incorp.	com recovered
RNA (100 nt, 0.2 ng/g	(اد	90%
RNA (1000 nt, 0.2 ng	/µl)	92%
RNA (100 nt, 0.2 ng/g RNA (1000 nt, 0.2 ng RNA (10,000 nt, 0.2 n	ng/μl)	89%
DNA (100-2000 bp, 4	pg/µl)	86%

The indicated samples of ³²P-labeled RNA and DNA were prepared using standard protocols for *in vitro* transcription and random priming, respectively. Following the labeling reactions, incorporation was determined by DE81 filtration. Known amounts of incorporated material (300,000 cpm) were precipitated in the presence of Pellet Paint. Samples without Pellet Paint resulted in a 5–50-fold reduction in recovery.

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patent pending